

INCLUDES INFORMATION FROM - OSHA, NASA, FDA, NIOSH, ATSDR, EPA, DoD, USDA, USGS, and NIEHS

Green = high priority for multiple offices

Blue = high priority for several offices or multiple offices with moderate interest – (propose networking among interested offices)

Red = low priority for multiple offices – (propose removing from list)

Table 1: Topics (NO PARTICULAR ORDER WITHIN EACH COLOR)	High interest – need to develop a network around this topic	Moderate interest – would like to join network for this topic, but not as a major participant	Low interest – no need to engage at this time
1. Systematic review approaches in chemical health assessment	<b>OSHA</b> - High agency interest if combined with topics #2, #7, #8 <b>NASA</b> - High Interest, in Concurrence with OSHA suggested grouping <b>ATSDR</b> <b>EPA/OPPT</b> – we will be doing this as part of TSCA Risk Assessments in 2017, <b>NCEA</b> (Highest), <b>OSCP</b> (ED chemicals), <b>OPP</b> (pesticides and inerts) <b>FDA/CFSAN</b> <b>NIEHS</b>	<b>EPA/NHEERL, OLEM, OW</b> <b>NIOSH</b> <b>DoD</b> – interest in methods and conjunction in WoE procedures (e.g., weighing and valuing positive vs negative responses (see #9) <b>USGS</b> – interest in identifying data gaps and research needs	
2. Identification of repositories and tools to manage health information data across the federal government	<b>OSHA</b> - See Topic #1 entry <b>NASA</b> -See Topic #1 <b>ATSDR</b> <b>EPA/OPPT</b> – we will be doing this as part of TSCA Risk Assessments in 2017, <b>OSCP</b> (ED chemicals) <b>DoD</b> – serum/blood spot repositories, DOEHRs, databases) <b>NIEHS</b>	<b>NIOSH</b> <b>FDA/CFSAN</b> <b>EPA/NCEA, OPP</b> <b>DoD</b> – Users <b>USGS</b>	<b>EPA/OLEM, OW</b>
3. The use of data from alternative toxicity testing methods across the federal government, leveraging changes in TSCA	<b>OSHA</b> - High agency interest as regulatory user but not major player in method development <b>EPA/OLEM, OW, NCEA, NHEERL</b> – (Very High), <b>OPPT</b> – (have to develop a	<b>NASA</b> - Moderate Interest but not as a major participant <b>ATSDR</b> -currently participate in ICCVAM.	<b>DoD</b> - (users)

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	strategy by mid-2018), <b>OSCP</b> (ED chemicals), <b>OPP</b> (incorporating alternatives in multiple areas) <b>NIOSH</b> – highest priority <b>DoD</b> – high interest <b>NIEHS</b>		
4. Defining aggregate and sentinel exposures	<b>OSHA</b> – High agency interest if topic expanded to TSCA prioritization and risk evaluation of existing chemicals <b>NASA</b> - <u>Highest Interest IF topics provide a clear focus on technical issues within new TSCA Law</u> (current survey topics lack this clear focus - <u>not adequately addressed in current survey</u> ) <b>FDA/CFSAN</b> <b>DoD</b> (note- I need clarification – Lynn)	<b>ATSDR</b> <b>EPA/OPPT, OSCP</b> (ED chemicals)	<b>EPA/OLEM, OW, NCEA, OPP, NCCT</b> (confusion as to meaning) <b>NIOSH</b> <b>USGS</b>
5. The use of epidemiological data in chemical health assessment	<b>EPA/NHEERL, NCEA, OPP</b> <b>ATSDR</b> <b>NIOSH</b> <b>FDA</b> <b>USDA</b>	<b>OSHA</b> - Moderate agency interest <b>NASA</b> - Moderate interest but not as a major participant <b>EPA/OPPT, OW</b> <b>DoD</b>	<b>EPA/OLEM, OSCP, NCCT</b> <b>DoD</b> – (users) <b>USGS</b>
6. Biologically-based dose response (BBDR) and physiologically-based pharmacokinetic (PBPK) modeling in chemical health assessment	<b>EPA/NHEERL, OPP</b> <b>ATSDR</b> -esp for health guidance values; emergency response. <b>NIOSH</b> <b>FDA</b> <b>DoD</b> – especially in regards to assumptions, verification and repeatability	<b>OSHA</b> - Moderate agency interest <b>EPA/OLEM, OW</b> <b>NASA</b> – Moderate Interest	<b>EPA/NCEA, OSCP, OPPT</b> – already doing this; willing to share, but not highest priority <b>USGS</b>

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7. Descriptors of causality for cancer and non-cancer outcomes	<b>OSHA</b> - See Topic #1 entry <b>NASA</b> – See Topic #1 <b>ATSDR</b> <b>NIOSH</b> <b>FDA/CFSAN</b> <b>EPA/NCEA</b> <b>DoD</b> – high interest in mechanisms, limited interest in descriptors	<b>EPA/OLEM, OW, OPP</b>	<b>EPA/OPPT</b> – (not sure what this means), <b>OSCP</b> (would prefer this focus on better WOE and evidence integration) <b>DoD</b> – (users) <b>USGS</b>
8. Adopting other agencies health assessment work	<b>OSHA</b> - See Topic #1 entry <b>NASA</b> - See Topic #1 entry <b>NIOSH</b> <b>EPA/OPPT, OSCP</b>	<b>ATSDR</b> <b>FDA</b> <b>EPA/OLEM, OW, NCEA</b> <b>DoD</b> – if collaborative approach is the focus	<b>EPA/OPP</b> – we already have collaborative projects with other countries <b>USGS</b>
9. NEW – Consistency in WoE approaches and methods to objectively value positive and negative data for risk assessment	<b>DoD</b> – high interest, could be merged into #11 if broadened beyond applications into development – or merged into #1 or 7		<b>USGS</b>
10. Handling of background levels of chemicals in the environment		<b>NASA</b> – Moderate Interest <b>ATSDR</b> <b>EPA/OLEM, OW, NCEA</b> <b>NIOSH</b> <b>FDA</b> <b>DoD</b> <b>USGS</b>	<b>OSHA</b> - Mild Agency Interest <b>EPA/OPPT, OSCP, OPP</b> <b>DoD</b> – (users)
11. Consistency in the application of cumulative risk assessments	<b>OSHA</b> - High interest, if packaged with topic #4 <b>FDA/CFSAN</b>	<b>OSHA</b> - Moderate Agency interest as stand alone <b>NASA</b> - Moderate Interest <b>ATSDR</b>	<b>EPA/OW</b> <b>DoD</b> – (users)

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		<b>EPA/OLEM, NCEA, OSCP,</b> <b>OPPT – (esp wrt phthalates),</b> <b>OPP – (we have a statutory requirement that sets out scope)</b> <b>NIOSH</b> <b>DoD – in conjunction with #8 and 21</b> <b>USGS</b>	
12. Development and use of reference values from short term exposures, e.g., protective of the developing fetus – for chronic exposure situations	<b>FDA/CFSAN (maybe CDER/NCTR)</b> <b>DoD</b>	<b>NASA- Moderate Interest but not as a major participant</b> <b>ATSDR</b> <b>EPA/OLEM, OW, NCEA</b> <b>NIOSH</b>	<b>OSHA - Mild Agency Interest</b> <b>EPA/OPP, OPPT, OSCP –</b> not clear what is meant by “reference values”; would this overlap with the PBPK?
13. Model averaging tools and Bayesian analysis approaches	<b>NIOSH</b> <b>EPA/NCCT</b>	<b>OSHA - Moderate Agency Interest</b> <b>NASA –Moderate Interest</b> <b>ATSDR</b> <b>FDA</b> <b>EPA/OLEM, NCEA, OW</b> <b>EPA/OPPT – we have used/collaborated with NIOSH on this in an ongoing assessment</b> <b>DoD</b>	<b>EPA/OPP</b> <b>DoD – (users)</b> <b>USGS</b>
14. Consideration of exogenous exposures to endogenously produced chemicals		<b>EPA/OLEM</b> <b>FDA</b>	<b>OSHA - Mild Agency Interest</b> <b>NASA- Mild Interest</b>

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			ATSDR NIOSH EPA/OPPT, OW, NCEA, OSCP, OPP DoD
15. Balancing public availability and privacy issues associated with the use of epidemiological data	EPA/OPP	NIOSH	OSHA - Mild Agency Interest NASA –Mild Interest ATSDR FDA EPA/OLEM, OW, NCEA DoD USGS
16. Handling confidential business information		NIOSH	OSHA - Mild Agency Interest NASA- Mild Interest ATSDR FDA EPA/OLEM, NCEA, OPP, OPPT and OSCP – our “handling” practice/standards are pretty clear; not sure what was envisioned here...ways to share? DoD USGS
17. Standardization of conflict of interest issues related to peer		NIOSH EPA/OSCP – we have SOPs for this	OSHA - Mild Agency Interest NASA- Mild Interest

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review and public participation			<b>ATSDR</b> <b>FDA</b> <b>EPA/OLEM, OW, NCEA, OPP, OPPT</b> will rely on EPA/OCSP for this, as they facilitate our Peer Review FACA <b>DoD</b> <b>USGS</b>
18. Cost-benefit and risk tradeoffs, e.g., pesticide use vs. Zika virus	<b>EPA/OPP</b>	<b>NASA- Moderate Interest</b> <b>ATSDR</b> <b>FDA</b> <b>EPA/OLEM, OW</b> <b>DoD</b> <b>USGS</b>	<b>OSHA - Mild Agency Interest</b> <b>NIOSH</b> <b>EPA/NCEA</b> <b>EPA/OPPT</b> – this really is not risk assessment; we cannot consider this in our risk assessments; only later in risk management
19. Tiered approaches to optimize and balance the collection of data, costs of data collection, and meeting the needs of the decision-makers	<b>DoD</b> – high interest integrated with green chemistry approaches	<b>EPA/NHEERL, OLEM, OSCP</b> <b>DoD</b> – users <b>USGS</b>	<b>OSHA - Mild Agency Interest</b> <b>NASA –Mild Interest</b> <b>ATSDR</b> <b>FDA</b> <b>NIOSH</b> <b>EPA/OW, NCEA, OPP</b>
20. OTHER – Development of priority qAOPs	<b>EPA/NHEERL</b>	<b>EPA/OPP, OSCP, OPPT</b> – for new chemicals assessments	<b>NASA- Mild Interest</b> <b>ATSDR</b> <b>FDA</b>

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			EPA/OW, NCEA DoD USGS
21. OTHER – Use of non-targeted exposure data	EPA/NHEERL USDA	NASA- Moderate Interest but not as a major participant	ATSDR FDA EPA/OW, NCEA EPA/OPPT – don't know what 'non-targeted' means...is that the opposite of "fit-for purpose" ☺?, OPP – is this how to handle "found" data? DoD USGS

Table 2: Specific chemicals, classes of chemicals, or categories (NO PARTICULAR ORDER WITHIN EACH COLOR)	High interest – need to develop a network around this chemical	Moderate interest – would like to follow network for this chemical, but not as a major participant	Low interest – no need to engage at this time
Per- and polyfluoroalkylated substances	<b>ATSDR</b> – Highest Priority and ongoing tox profile <b>EPA/OW, NHEERL, OLEM, NCEA</b> – (highest), <b>OPPT</b> – (EPA has cross-office effort ongoing, so timely for sharing), <b>OSCP</b> (endocrine effects) <b>DoD</b>	<b>NASA</b> - High to Moderate Interest <b>USGS</b>	<b>OSHA</b> - Mild Interest <b>NIOSH</b> <b>EPA/OPP</b>
1-Bromopropane	<b>OSHA</b> - High Interest – preparing RFI <b>EPA/OPPT</b> – TSCA “First 10”; have draft Risk Assessment <b>DoD</b> – high interest	<b>NASA</b> -Moderate Interest <b>ATSDR</b> -ongoing tox profile <b>EPA/OLEM</b> <b>NIOSH</b>	<b>EPA/OLEM, NCEA, OPP</b>
Lead	<b>OSHA</b> - High Interest – preparing ANPR <b>ATSDR</b> – ongoing tox profile <b>EPA/OLEM, OW, OPPT</b> <b>DoD</b> – high interest	<b>EPA/NHEERL, NCEA</b> <b>NIOSH</b> <b>USGS</b>	<b>NASA</b> -Mild Interest <b>EPA/OPP</b>
Flame retardants	<b>EPA/NHEERL</b> <b>NASA</b> -High Interest <b>EPA/OPPT</b> – will be working on HBCD in 2017 (TSCA “First 10”) <b>DoD</b> – (need clarification – Lynn)	<b>ATSDR</b> -current tox profile (PBDEs) <b>EPA/OLEM, OW, NCEA, OSCP</b> (endocrine disruptors) <b>USGS</b>	<b>OSHA</b> - Mild Interest <b>NIOSH</b>
Refrigerants	<b>EPA/OPPT</b> – TCE, Methylene Chloride & PERC used to make them <b>DoD</b> – moieties used in fire extinguishing agents	<b>NASA</b> -High to Moderate Interest <b>EPA/OW</b> (HFC-22 in particular)	<b>OSHA</b> - Mild Interest <b>ATSDR</b> -tox profile <b>EPA/OLEM, NCEA, OPP</b> <b>NIOSH</b>



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Pesticides - Organophosphate and pyrethroids	<b>EPA/OPP</b> <b>DoD</b>	<b>ATSDR</b> -current tox profile (pyrethrins) <b>EPA/OW, OSCP</b> <b>USGS</b>	<b>OSHA</b> - Mild Interest <b>NASA</b> - Mild Interest <b>EPA/OLEM, NCEA</b> <b>NIOSH</b>
Phthalates	<b>EPA/NHEERL, NCEA</b>	<b>NASA</b> -High to Moderate Interest <b>ATSDR</b> -ongoing DEHP tox profile <b>EPA/OSCP, OPPT</b> – 8 phthalates on TSCA Work Plan; work NEEDS to be in cumulative RA context AND this would have to involve several agencies with various jurisdictions (food, drugs, chemical uses, consumer products) <b>DoD</b>	<b>OSHA</b> - Mild Interest <b>NIOSH</b> <b>EPA/OPP</b> <b>USGS</b>
Chemicals that cross boundaries, e.g., occupational, environment, food, consumer goods Example: excreted drugs become water pollutants	<b>DoD</b> <b>USGS</b>	<b>NASA</b> - High to Moderate interest due to increasing overlap of occupational and environmental requirements <b>ATSDR</b> <b>EPA/OLEM, OW</b> <b>NIOSH</b>	<b>OSHA</b> - Mild Interest <b>EPA/NCEA, OPP</b>
Nanomaterials, e.g., nano-silver	<b>NIOSH</b> <b>EPA/OPP, OPPT</b> – interest in new chemicals, creating categories for ‘read-across’ <b>DoD</b>	<b>OSHA</b> - Moderate Interest due to involvement in interagency workgroup on nanomaterials <b>NASA</b> - Moderate Interest <b>ATSDR</b> -agency workgroup <b>USGS</b>	<b>EPA/OLEM, OW, NCEA</b>
Synthetic turf	<b>EPA/NHEERL</b> <b>ATSDR</b> -ongoing studies	<b>EPA/OLEM, NCEA</b>	<b>OSHA</b> - Mild Interest <b>NASA</b> -Mild Interest

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	DoD – ongoing studies		NIOSH EPA/OW, OPP
Manganese	EPA/NCEA, OW	OSHA - Moderate Interest as future project ATSDR – tox profile EPA/OLEM, OPP	NASA- Mild Interest NIOSH DoD USGS
Styrene		OSHA - Moderate Interest – preparing RFI EPA/OW, NCEA, OPPT – on 2014 TSCA Work Plan (but not “First 10)	NASA –Mild Interest ATSDR-tox profile EPA/OLEM, OPP NIOSH DoD USGS
Diisocyanates	DoD – used in binders, curing agents	OSHA - Moderate Interest as future project NASA-Moderate Interest ATSDR-ongoing TDI/MDI tox profile NIOSH EPA/OW, OPPT -interest in new chemicals program; PPE/protection levels	EPA/OLEM, NCEA, OPP USGS
Diacetyl and food additives		OSHA - Moderate Interest due to past involvement	NASA-Mild interest ATSDR EPA/OLEM, OPPT, OW, NCEA NIOSH DoD USGS
Materials and chemicals as part of the additive manufacturing processes	DoD – effects compliance and sustainability	NASA- Moderate Interest	OSHA - Mild Interest ATSDR EPA/OLEM, OW, NCEA, OPP

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			NIOSH USGS
OTHER	<b>EPA/OPPT:</b> <ul style="list-style-type: none"> <li>• 1,4-Dioxane (EPA/OW – moderate)</li> <li>• Asbestos</li> <li>• Carbon Tetrachloride</li> <li>• HBCD</li> <li>• Methylene Chloride</li> <li>• N-methylpyrrolidone</li> <li>• Tetrachloroethylene (EPA/OW – moderate)</li> <li>• Trichloroethylene (EPA/OW – moderate), DoD (workplace exposures from vapor intrusion)</li> </ul>		
Desert sand	DoD		
Burn pit emissions	DoD		
Jet fuel	DoD		
Hexavalent chromium, cadmium and other heavy metals	DoD	EPA/OW – hexavalent chromium	